

Fig. 1A

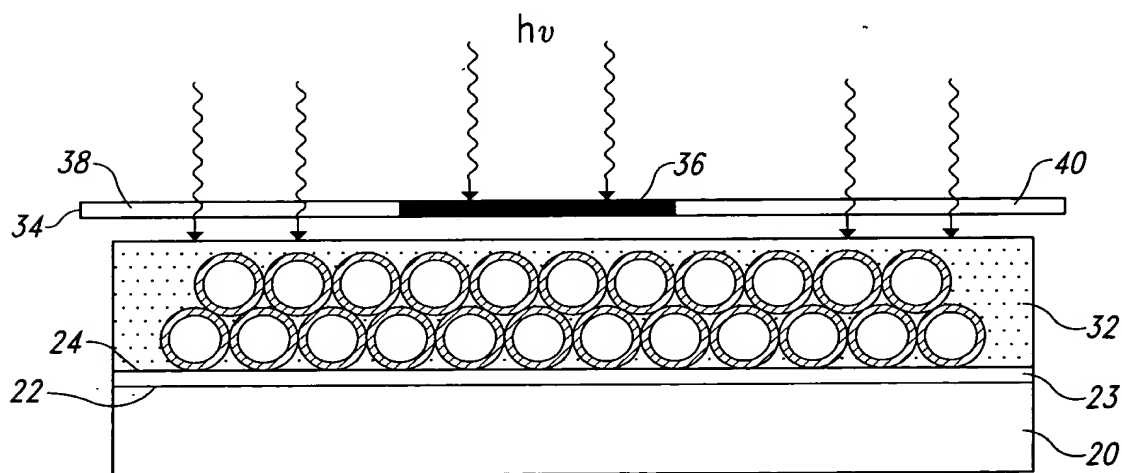


Fig. 1B

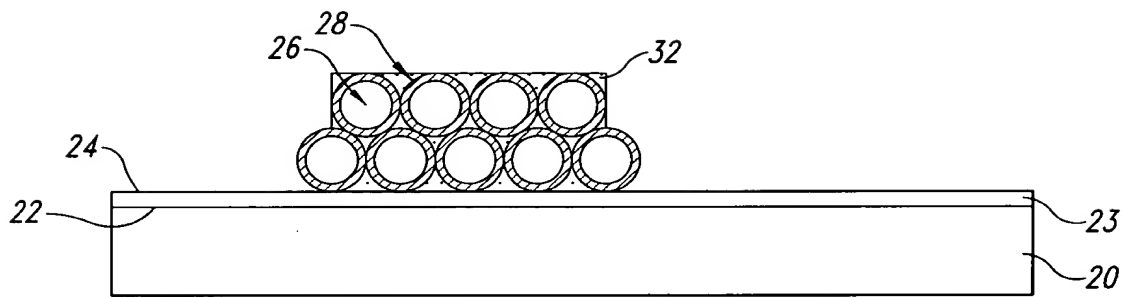


Fig. 1C

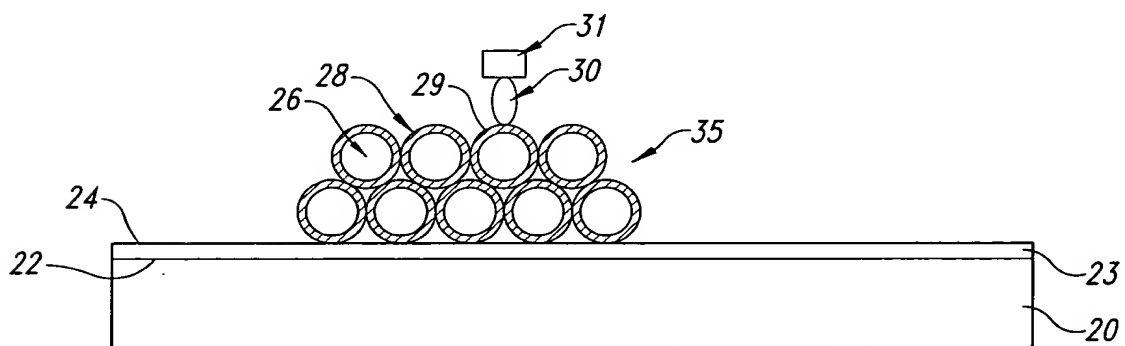


Fig. 1D

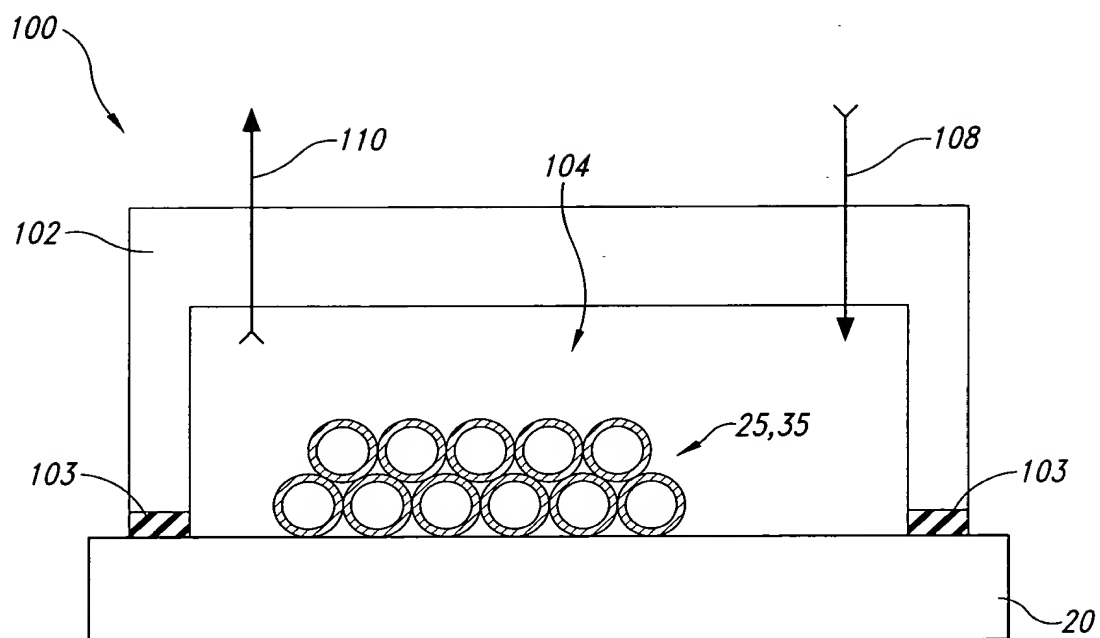


Fig. 1E

000006 15KV X1,100 14mm

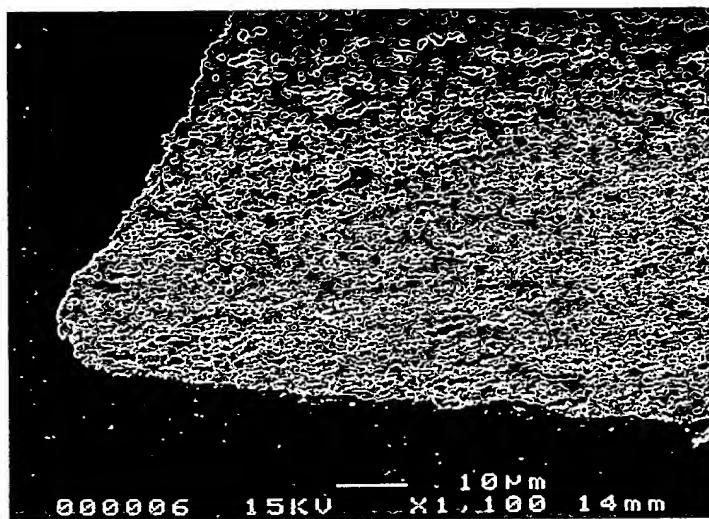


Fig. 2

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Fig. 3

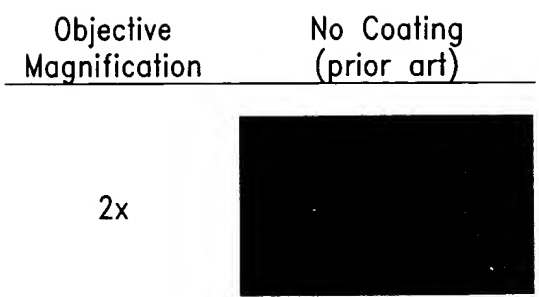


Fig. 4A

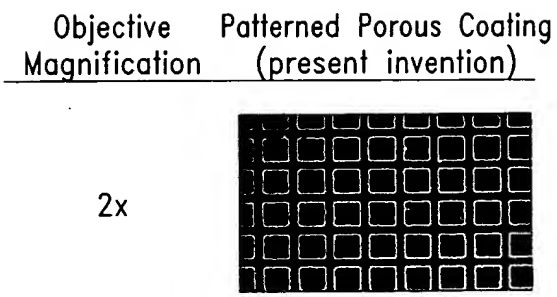


Fig. 4B

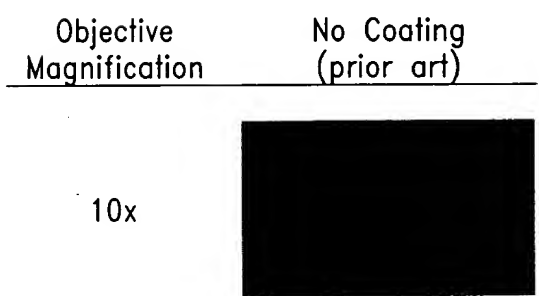


Fig. 4C

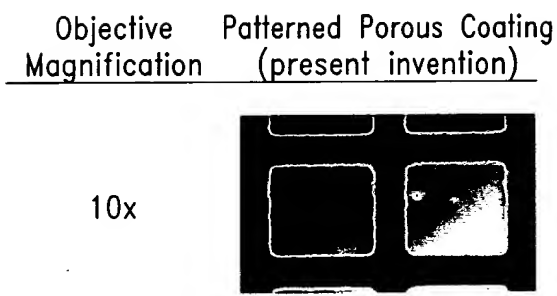


Fig. 4D

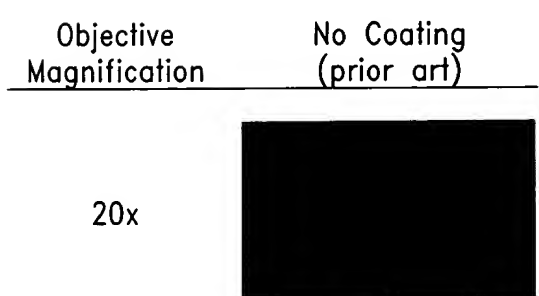


Fig. 4E

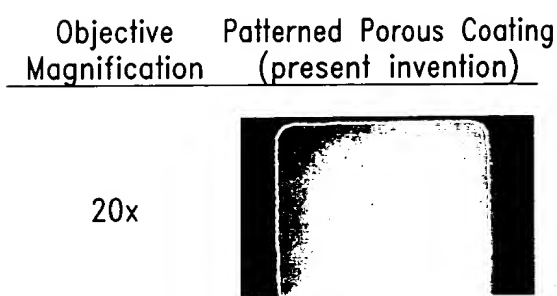


Fig. 4F

Receptor Fluorescence Image

None



Fig. 5A

Receptor

Surface Plot

None

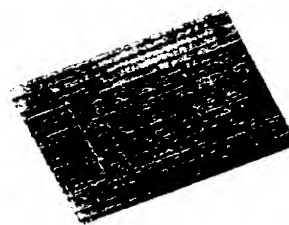


Fig. 5B

Receptor Fluorescence Image

FTA

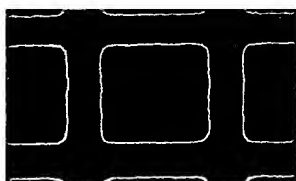


Fig. 5C

Receptor

Surface Plot

FTA

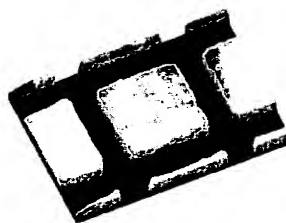


Fig. 5D

Receptor Fluorescence Image

FAA



Fig. 5E

Receptor

Surface Plot

FAA



Fig. 5F

PNA array contacted
by FAA receptor

Receptor Sequence 5' – GCGAAGGC – F

Array schematic

| | | | |
|----|----|----|----|
| AT | GT | CT | TT |
| AC | GC | CC | TC |
| AG | GG | CG | TG |
| AA | GA | CA | TA |

Fig. 6A

PNA array contacted
by FTA receptor

Receptor Sequence 5' – GCGTAGGC – F

Array schematic

| | | | |
|----|----|----|----|
| AT | GT | CT | TT |
| AC | GC | CC | TC |
| AG | GG | CG | TG |
| AA | GA | CA | TA |

Fig. 6B

PNA array contacted
by FAA receptor

Fluorescence Image

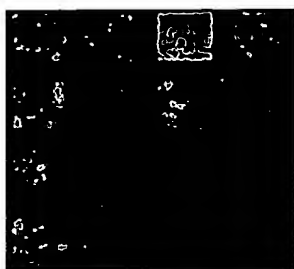


Fig. 6C

PNA array contacted
by FTA receptor

Fluorescence Image

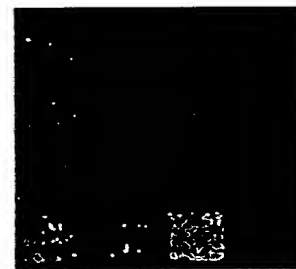


Fig. 6D

PNA array contacted
by FAA receptor

Surface Plot



Fig. 6E

PNA array contacted
by FTA receptor

Surface Plot

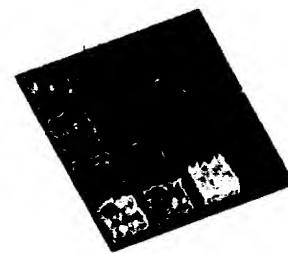


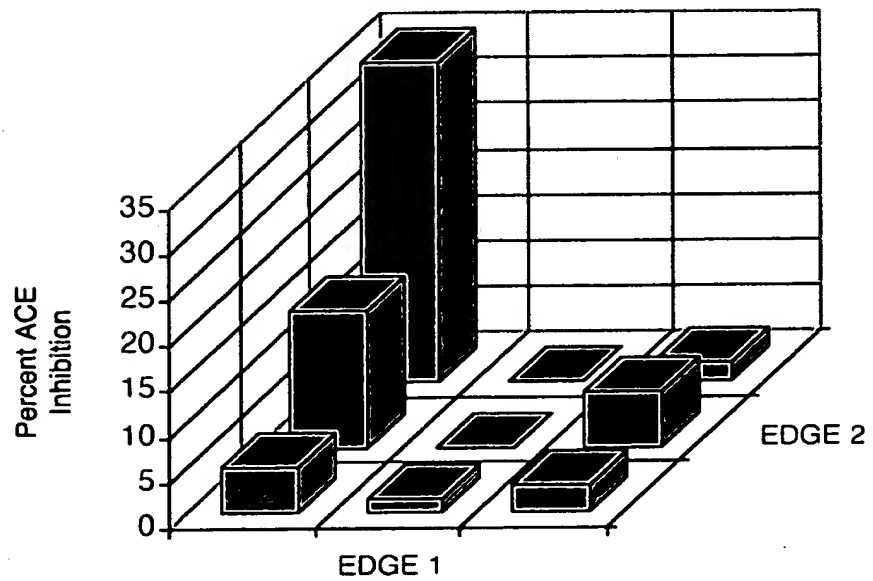
Fig. 6F

| | | |
|-----------------|-----------------|-----------------|
| $R_{1a}+R_{2a}$ | $R_{1b}+R_{2a}$ | $R_{1c}+R_{2a}$ |
| $R_{1a}+R_{2b}$ | $R_{1b}+R_{2b}$ | $R_{1c}+R_{2b}$ |
| $R_{1a}+R_{2c}$ | $R_{1b}+R_{2c}$ | $R_{1c}+R_{2c}$ |

Array Schematic

EDGE 1

EDGE 2



Surface Plot

Fig. 7